AMENDMENTS TO THE CLAIMS

- 1. (Currently Amended) A composite material comprising:
- a plurality of beads having electrical excitation zone-treated surfaces, said beads having average diameters between about 1 and about 10 mm, wherein
- at least 50 percent of said beads are at least 50 percent coated with an adhesive, and wherein
- a cured form of said adhesive has a hardness ranging from about Shore A 25 20 to about Shore A 95 and is used in a quantity such that it represents between about 20 percent and about 80 weight percent of the weight of the composite material, said beads and said adhesive creating a system of void spaces.
- 2. (Original) The composite material of claim 1 wherein the adhesive coated beads have average diameters between about 1 and about 4 mm.
- 3. (Original) The composite material of claim 1 wherein said beads are inelastic.
 - 4. (Original) The composite material of claim 1 wherein said beads are elastic.
- 5. (Original) The composite material of claim 1 wherein said beads are made of polymeric materials selected from the group consisting of polyethylene, propylene and ethyl propylene copolymer.
- 6. (Currently Amended) The composite material of claim 1 wherein said <u>beads</u> and said adhesive create a system of void spaces <u>that constitutes from about 10 to</u> about 40 volume percent of the total volume of said composite material is substantially comprised of substantially regularly distributed void spaces.
- 7. (Original) The composite material of claim 1 wherein the beads have diameters ranging from about 1 mm to about 4 mm.

- 8. (Original) The composite material of claim 1 wherein said beads are solid.
- 9. (Original) The composite material of claim 1 wherein said beads are hollow.
- 10. (Original) The composite material of claim 1 wherein said beads are made of a ceramic material.
- 11. (Original) The composite material of claim 1 wherein said beads are made from a glass material.
- 12. (Original) The composite material of claim 1 wherein said beads are made of a plastic material.
- 13. (Original) The composite material of claim 1 wherein the beads have one or more holes passing through their bodies.
- 14. (Original) The composite material of claim 1 wherein said beads are made of a thermosetting material.
- 15. (Original) The composite material of claim 1 wherein said beads are made of a thermoplastic material.
- 16. (Original) The composite material of claim 1 wherein the adhesive is made from a two part resin.
- 17. (Original) The composite material of claim 1 wherein the adhesive is made from a thermosetting synthetic resin.

- 18. (Original) The composite material of claim 1 wherein the adhesive is made from a thermoplastic synthetic material.
- 19. (Original) The composite material of claim 1 wherein said beads are of different sizes.
- 20. (Original) The composite material of claim 1 wherein said beads are comprised of a mixture of different kinds of beads.
- 21. (Original) The composite material of claim 1 wherein said beads are coated with a coupling agent to promote bead/adhesive bonding.
- 22. (Original) The composite material of claim 1 wherein said beads are electrical excitation zone-treated more than once to accomplish more than one kind of treatment.
- 23. (Original) The composite material of claim 1 wherein said beads are coated with a polymeric material by the action of an electrical excitation zone treatment.
- 24. (Original) The composite material of claim 1 wherein said beads are spherical.
- 25. (Original) The composite material of claim 1 wherein said beads are ellipsoid.
- 26. (Original) The composite material of claim 1 wherein said beads are made of different polymeric materials.
- 27. (Previously Presented) The composite material of claim 1 wherein said material is placed in a cloth casing.

- 28. (Previously Presented) The composite material of claim 1 wherein said material is placed in a net casing.
- 29. (Original) The composite material of 1 wherein said material is used in conjunction with a hard plastic, outer shell.
- 30. (Original) The composite material of claim 1 wherein at least 50 percent of the beads are at least 80 percent covered by the adhesive.
 - 31. (Canceled).
- 32. (Currently Amended) A water permeable, composite construction material comprising:

a plurality of beads having electrical excitation zone treated surfaces, said beads having average diameters between about 1 and about 10 mm, and wherein

at least 50 percent of said beads are at least 50 percent coated with an adhesive, and wherein

a cured form of said adhesive has a hardness ranging from about Shore A 25 20 to about Shore A 95 and is used in a quantity such that it represents between about 20 percent and about 80 weight percent of the weight of the composite material, said beads and said adhesive creating a system of void spaces.

33. (Currently Amended) A breathable padding material, said material comprising:

a plurality of beads having electrical excitation zone treated surfaces, said beads having average diameters between about 1 and about 10 mm, and wherein

at least 50 percent of said beads are at least 50 percent coated with an adhesive and wherein a cured form of said adhesive has a hardness ranging from about Shore A 25 20 to about Shore A 95 and is used in a quantity such that it represents between

about 20 and about 80 percent and about 80 weight percent of the weight of the composite material, said beads and said adhesive creating a system of void spaces.

34 - 38. (Canceled).